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NOTICE OF ALLOWANCE AND FEE(S) DUE

52835 7590 06/24/2010

HAMRE, SCHUMANN, MUELLER & LARSON, P.C.

P.O. BOX 2902 MINNEAPOLIS, MN 55402-0902 EXAMINER
GALLIS, DAVID E

PAPER NUMBER

ART UNIT 1625 DATE MAILED: 06/24/2010

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONTEMATION NO.

 10/56/5/948
 01/26/2006
 Fumiliatio Watanabe
 20050,1USWO
 8441

TITLE OF INVENTION: SULFONAMIDE DERIVATIVE HAVING ISOXAZOLE RING

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 09/24/2010 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE: shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

| appropriate. All further indicated unless corrects maintenance fee notifica | correspondence includired below or directed oth | of transmitting the 1330 ig the Patent, advance or ierwise in Block 1, by (a | rders and notification of r a) specifying a new corres | naintenance fees wil spondence address; a | I be mailed to the current and/or (b) indicating a sep | correspondence address as arate "FEE ADDRESS" for | |
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| CURRENT CORRESPOND | ENCE ADDRESS (Note: Use Bi | ock 1 for any change of address) | Note Feet page have | e: A certificate of m s) Transmittal. This ers. Each additional p e its own certificate of | ailing can only be used for certificate cannot be used paper, such as an assignm of mailing or transmission. | or domestic mailings of the for any other accompanying ent or formal drawing, must | |
| 32835 7590 06242010 HAMRE, SCHUMANN, MUELLER & LARSO P.O. BOX 2902 MINNEAPOLIS, MN 55402-0902 | | | P.C. I he State addition | coby cartify that this | ficate of Mailing or Trans Fee(s) Transmittal is bein h sufficient postage for fir Stop ISSUE FEE address O (571) 273-2885, on the o | smission g deposited with the United st class mail in an envelope above, or being facsimile date indicated below. | |
| | | | | | | (Depositor's name) | |
| | | | <u> </u> | | | (Signature) | |
| | | | | | | (Date) | |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTOR | | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
| 10/565,948 | 01/26/2006 | | Fumihiko Watanabe | | 20050.1USWO | 8441 | |
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| EXAM | INER | ART UNIT | CLASS-SUBCLASS | | | | |
| GALLIS, | DAVID E | 1625 | 514-378000 | | | | |
| "Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A | ND RESIDENCE DATA | "Indication form ed. Use of a Customer A TO BE PRINTED ON | (1) the names of up to or agents OR, alternative. (2) the name of a single registered attorney or a 2 registered pattent atto- listed, no name will be THE PATENT (print or type data will appear on the p T a substitute for filing an | vely, e firm (having as a n ugent) and the names rneys or agents. If no printed. | nember a 2 of up to o name is 3 | document has been filed for | |
| (A) NAME OF ASSI | | categories (will not be pr | (B) RESIDENCE: (CITY | | | oup entity 🖵 Government | |
| 4a. The following fee(s) Issue Fee Publication Fee (N Advance Order | o small entity discount p | | o. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo | d. Form PTO-2038 i | s attached. | shown above) eficiency, or credit any un extra copy of this form). | |
| - 11 | s SMALL ENTITY state | is. See 37 CFR 1.27. | | | ENTITY status. Sec 37 C | | |
| NOTE: The Issue Fee an interest as shown by the | d Publication Fee (if req records of the United Sta | uired) will not be accepted tes Patent and Trademark | d from anyone other than t Office. | he applicant; a regist | ered attorney or agent; or t | he assignee or other party in | |
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| This collection of inform an application. Confiden submitting the complete this form and/or suggests Box 1450, Alexandria, V Alexandria, Virginia 223 | ation is required by 37 C tiality is governed by 35 d application form to the ons for reducing this but firginia 22313-1450. DC 13-1450. | FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the O NOT SEND FEES OR (| on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO | retain a benefit by the imated to take 12 mi idual case. Any com er, U.S. Patent and To D THIS ADDRESS. | public which is to file (an nutes to complete, includi ments on the amount of ti rademark Office, U.S. Dep SEND TO: Commissioner | d by the USPTO to process) ng gathering, preparing, and me you require to complete sartment of Commerce, P.O. for Patents, P.O. Box 1450, | |

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

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| P.O. BOX 2902 MINNEAPOLIS, MN 55402-0902 | | | ART UNIT | PAPER NUMBER | |
| | | | 1625 | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 740 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 740 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/565,948 WATANABE ET AL. Notice of Allowability Examiner Art Unit DAVID F GALLIS 1625 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to Arguments and amendments filed June 10, 2010. The allowed claim(s) is/are 1-9,12-14 and 17. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) 🔯 All b) ☐ Some* c) ☐ None of the: 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

| . | Ш | Notice | of Re | ferences | Cited | (PT | O-892) | ١ |
|---|---|--------|-------|----------|-------|-----|--------|---|
|---|---|--------|-------|----------|-------|-----|--------|---|

- Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08).
- Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- Other _____.

/Janet L. Andres/

Supervisory Patent Examiner, Art Unit 1625

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 Claims 1 through 9, 12 through 14 and 17 are pending. Claims 1 through 9 and 17 have been amended. Applicants' claim to foreign priority by application JAPAN 2003-282354 filed July 30, 2003 is acknowledged. Applicants' amendments and arguments filed June 10, 2010 have been entered and carefully considered.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Claim 1, delete in its entirety line 12 which reads "Z¹ is -CH2-, -NH-, -O-, or-S-;".

Claim 1, delete in its entirety line 13 which reads "a broken line (---) represents the presence or absence of a bond:".

Reasons for Allowance

- 3. With regard to the prior rejection of claims 3 and 17 under the second paragraph of 35 U.S.C. 112, Applicants have amended claims 3 and 17 to exclude quinolinyl, isoquinolinyl, benzthiolanyl, benzoxolanyl and pyridinyl R⁶ moietities. Therefore, the rejection of claims 3 and 17 as indefinite is hereby withdrawn.
- 4. The claimed invention is neither anticipated by, nor obvious over, the prior art.
- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/565,948

Art Unit: 1625

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Gallis whose telephone number is 571-272-9068. The examiner can normally be reached on Mon-Fri 7:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres can be reached on 571-272-1600. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Janet L. Andres/ Supervisory Patent Examiner, Art Unit 1625

David E. Gallis Patent Examiner